

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (original): A prophy chip, mounted on the top of a dental rotary instrument for cleaning, polishing, and burnishing teeth, comprising:

 a hollow cup-shaped core with canopy (semispherical), cylindrical, cupped, conical, inverted conical, or disk profile;

 a shaft containing a connecting means for connecting the prophy chip to the dental rotary instrument to avoid vibration around the rotation axis of the core during rotation;

 a hydrophilic grindstone sponge covering the core, wherein the hydrophilic grindstone sponge comprises a grindstone therein; and

 a shank-equipped or undulated latch plate fixing the hydrophilic grindstone sponge by folding the edge thereof into the interior or the bottom of the core, or for gripping;

 wherein the hydrophilic grindstone sponge is immersed in water prior to operation or absorbed saliva during operation without using a polishing paste to dissipate heat generated by friction.

Claim 2 (original): The prophy chip as claimed in claim 1, wherein the hydrophilic sponge is hydrophilic latex sponge, or polyurethane sponge, and the hydrophilic latex sponge or the hydrophilic polyurethane sponge comprises a grindstone of $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ or $\text{Ca}_{10}(\text{PO}_4)_6\text{F}_2$ as a wet grindstone sponge covering the core.

Claim 3 (original): The prophy chip as claimed in claims 1 or 2, wherein the hydrophilic sponge further comprises at least one water soluble agent consisting of a foaming agent, a sweetener, a fragrance, a medicament for inhibiting or preventing periodontal diseases or dental caries, or a coating agent.

Claim 4 (original): The prophy chip as claimed in claims 1 or 2, wherein the core is reticular or porous and at least one water soluble agent consisting of a foaming agent, a sweetener, a

fragrance, a medicament for inhibiting or preventing periodontal diseases or dental caries, or a coating agent is disposed in the hollow portion of the core, or the core is filled with a water-retaining sponge immersed in the water soluble agent, wherein the water soluble agent is releasable from the surface of the hydrophilic grindstone sponge covering the core.

Claim 5 (currently amended): The prophy chip as claimed in any one of claim 1 ~~claims 1-4~~, wherein the outside of the core is nonwoven to maintain the grindstone and has hydrophilicity and flexibility.

Claim 6 (currently amended): The prophy chip as claimed in any one of claim 1 ~~claims 1-4~~, wherein the outside of the sponge covering the core is a three-dimensionally continuous, porous film for conducting a solution from a flexible polishing agent.